

## Primate Evolution

Taphonomy is:

This is important because:

Dating Methods

Radiometric Dating

Measures the quantity of \_\_\_\_\_ left in a rock and compares it to the quantity of \_\_\_\_\_ in the rock to estimate time passed since the rock was formed.

Bracketing the fossils means:

Stratigraphy

\_\_\_\_\_ are layers of \_\_\_\_\_.

Older fossils are in \_\_\_\_\_ strata.

Geologic processes that interrupt the vertical patterns are:

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Molecular Clocks

Refers to the steady rate of \_\_\_\_\_ build up in a given stretch of DNA.

\_\_\_\_\_ is the field of study that reconstructs past landscapes.

\_\_\_\_\_ is the study of fossil plants

Traditional approaches include:

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Integrative approaches include:

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\_\_\_\_\_ is the study of fossil pollen.

Can be used for:

- 1.
- 2.

\_\_\_\_\_ are fossilized plant cells.

Fill in the Geologic Time Scale

ya = years ago

mya = million years ago

bya = billion years ago

Eon	Erathem or Era	System, Subsystem or Period, Subperiod		Series or Epoch
				Holocene
				11,477ya to present
				Oligocene
	Mesozoic 251.0-65.5 mya			Late or Upper
				Middle
				Early or Lower
		299.0-251.0 mya		
				Late or Upper
				Early or Lower
				Pridoli
		Cambrian		

Origins of mammals occurs in the \_\_\_\_\_.

\_\_\_\_\_, or flowering plants, rose and diversified in the Mesozoic.

\_\_\_\_\_ refers to the extinction of dinosaurs.

Theories on the origins of primates:

1.

2.

3.

4.

Plesiadapiformes characteristics:

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Define: Prognathism:

Diastema:

From Plesiadapiformes video:

Two characteristics that make the researchers conclude that the fossils were primate ancestors:

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The most primitive primate skeleton found to date is called \_\_\_\_\_ and is transitory between primitive tree shrews and primates.

True primates arose in the \_\_\_\_\_ epoch.

Climatic conditions:

Two main families: 1.

Characteristics

- range:
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2.

Characteristics

- range:
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Oligocene climatic conditions:

Eosimians:

Dates:

Bridges:

Parapithecids (Aegyptopithecus):

Found:

Habitat:

Diet:

Behavior:

Possibly ancestral to:

New World Monkeys may have gotten to South America by \_\_\_\_\_ from \_\_\_\_\_, but new evidence suggests an \_\_\_\_\_ origin.

Miocene climatic conditions:

Ape characteristics:

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- 
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Proconsul

- lived:
- habitats:
- diet:

Sivapithecus

- lived:
- habitat:
- diet:

Similar to modern \_\_\_\_\_.

\_\_\_\_\_ may be the female Sivapithecus.

## Gigantopithecus

- lived:
- diet:

Claimed to be the source of tales of \_\_\_\_\_, \_\_\_\_\_, and \_\_\_\_\_.

\_\_\_\_\_ is an example of an Old World Monkey ancestor.

- lived:
- diet:

## Miocene Old World monkey traits:

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